



SEQUENCE LISTING

<110> Gutkowska et al.

<120> Oxytocin as Cardiomyogenesis Inducer and Uses Thereof

<130> 29105/40749

<150> PCT/CA2003/000897

<151> 2003-06-13

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<151> 2002-06-21

<160> 17

<170> PatentIn version 3.4

<210> 1

<211> 9

<212> PRT

<213> Homo sapiens

<220>

<221> Disulfide bridge

<222> (1)..(6)

<223> Residues 1 and 6 are linked via a disulfide bridge

<220>

<221> Modification

<222> (9)..(9)

<223> C-terminal Gly is amidated

<400> 1

Cys Tyr Ile Gln Asn Cys Pro Leu Gly
1 5

<210> 2

<211> 11

<212> PRT

<213> Homo sapiens

<220>

<221> Disulfide bridge

<222> (1)..(6)

<223> Residues 1 and 6 are linked via a disulfide bridge

<400> 2

Cys Tyr Ile Gln Asn Cys Pro Leu Gly Gly Lys
1 5 10

<210> 3

<211> 512

<212> DNA

<213> Homo sapiens

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cagaaggcgt	gcgggagcgg	ggccgcgtgc	gcggtcttgg	gcctctgctg	cagccggac	360
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 <212> PRT
 <213> Homo sapiens

<400> 4

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 20 25 30

Ala Pro Asp Leu Asp Val Arg Lys Cys Leu Pro Cys Gly Pro Gly Gly
 35 40 45

Lys Gly Arg Cys Phe Gly Pro Asn Ile Cys Cys Ala Glu Glu Leu Gly
 50 55 60

Cys Phe Val Gly Thr Ala Glu Ala Leu Arg Cys Gln Glu Glu Asn Tyr
 65 70 75 80

Leu Pro Ser Pro Cys Gln Ser Gly Gln Lys Ala Cys Gly Ser Gly Gly
 85 90 95

Arg Cys Ala Val Leu Gly Leu Cys Cys Ser Pro Asp Gly Cys His Ala
 100 105 110

Asp Pro Ala Cys Asp Ala Glu Ala Thr Phe Ser Gln Arg
 115 120 125

<210> 5
 <211> 27
 <212> DNA
 <213> Homo sapiens

<400> 5
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27

<210> 6
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<221> Disulfide bridge
<222> (1)..(6)
<223> Residues 1 and 6 are linked via a disulfide bridge

<400> 6

Cys Tyr Ile Gln Asn Cys Pro Leu Gly
1 5

<210> 7
<211> 4357
<212> DNA
<213> Homo sapiens

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 <212> PRT
 <213> Homo sapiens

<400> 8

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Ser Ala Ala Pro Pro Gly Ala Glu Gly Asn Arg Thr Ala Gly Pro Pro
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Arg Arg Asn Glu Ala Leu Ala Arg Val Glu Val Ala Val Leu Cys Leu

35

40

45

Ile Leu Leu Leu Ala Leu Ser Gly Asn Ala Cys Val Leu Leu Ala Leu
 50 55 60

Arg Thr Thr Arg Gln Lys His Ser Arg Leu Phe Phe Phe Met Lys His
 65 70 75 80

Leu Ser Ile Ala Asp Leu Val Val Ala Val Phe Gln Val Leu Pro Gln
 85 90 95

Leu Leu Trp Asp Ile Thr Phe Arg Phe Tyr Gly Pro Asp Leu Leu Cys
 100 105 110

Arg Leu Val Lys Tyr Leu Gln Val Val Gly Met Phe Ala Ser Thr Tyr
 115 120 125

Leu Leu Leu Leu Met Ser Leu Asp Arg Cys Leu Ala Ile Cys Gln Pro
 130 135 140

Leu Arg Ser Leu Arg Arg Arg Thr Asp Arg Leu Ala Val Leu Ala Thr
 145 150 155 160

Trp Leu Gly Cys Leu Val Ala Ser Ala Pro Gln Val His Ile Phe Ser
 165 170 175

Leu Arg Glu Val Ala Asp Gly Val Phe Asp Cys Trp Ala Val Phe Ile
 180 185 190

Gln Pro Trp Gly Pro Lys Ala Tyr Ile Thr Trp Ile Thr Leu Ala Val
 195 200 205

Tyr Ile Val Pro Val Ile Val Leu Ala Thr Cys Tyr Gly Leu Ile Ser
 210 215 220

Phe Lys Ile Trp Gln Asn Leu Arg Leu Lys Thr Ala Ala Ala Ala Ala
 225 230 235 240

Ala Glu Ala Pro Glu Gly Ala Ala Ala Gly Asp Gly Gly Arg Val Ala
 245 250 255

Leu Ala Arg Val Ser Ser Val Lys Leu Ile Ser Lys Ala Lys Ile Arg
 260 265 270

Thr Val Lys Met Thr Phe Ile Ile Val Leu Ala Phe Ile Val Cys Trp
 275 280 285

Thr Pro Phe Phe Val Gln Met Trp Ser Val Trp Asp Ala Asn Ala
290 295 300

Pro Lys Glu Ala Ser Ala Phe Ile Ile Val Met Leu Leu Ala Ser Leu
305 310 315 320

Asn Ser Cys Cys Asn Pro Trp Ile Tyr Met Leu Phe Thr Gly His Leu
325 330 335

Phe His Glu Leu Val Gln Arg Phe Leu Cys Cys Ser Ala Ser Tyr Leu
340 345 350

Lys Gly Arg Arg Leu Gly Glu Thr Ser Ala Ser Lys Lys Ser Asn Ser
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Ser Ser Phe Val Leu Ser His Arg Ser Ser Ser Gln Arg Ser Cys Ser
370 375 380

Gln Pro Ser Thr Ala
385

<210> 9
<211> 22
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 9
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<210> 10
<211> 23
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 10
cgactcagga cgaagggtgga gga 23

<210> 11
<211> 24
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 11
gtcaatccta ccccccgaagc agct 24

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<210> 12
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<220>
<223> Synthetic oligonucleotide

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cagcatggc tccttctcca                                20

<210> 13
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<400> 13
cagtgatggc atccactgtg gtc                                23

<210> 14
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<212> DNA
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<220>
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<400> 14
aagggtcggtg tcaacccatt tggccgt                                27

<210> 15
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<221> Disulfide bridge
<222> (1)..(6)
<223> Residues 1 and 6 are linked via a disulfide bridge

<400> 15

Cys Tyr Ile Gln Asn Cys Pro Leu Gly Gly
1                      5                      10

<210> 16
<211> 12
<212> PRT
<213> Homo sapiens

<220>
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<222> (1)..(6)
<223> Residues 1 and 6 are linked via a disulfide bridge

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<400> 16

Cys Tyr Ile Gln Asn Cys Pro Leu Gly Gly Lys Arg
1 5 10

<210> 17

<211> 12

<212> PRT

<213> Homo sapiens

<220>

<221> Disulfide bridge

<222> (1)..(6)

<223> Residues 1 and 6 are linked via a disulfide bridge

<220>

<221> Misc_feature

<222> (9)..(9)

<223> If residue 10 not Gly, the Gly in position 9 may be optionally amidated

<220>

<221> Misc_feature

<222> (10)..(10)

<223> Xaa=Gly or nothing

<220>

<221> Misc_feature

<222> (11)..(11)

<223> If residue 10 is Gly, Xaa=Lys or nothing; if residue 10 is not Gly, Xaa=nothing

<220>

<221> Misc_feature

<222> (12)..(12)

<223> If residue 11 is Lys, Xaa=Arg or nothing; if residue 10 is not Lys, Xaa=nothing

<400> 17

Cys Tyr Ile Gln Asn Cys Pro Leu Gly Xaa Xaa Xaa
1 5 10